

Abstract of the Disclosure

Systems and techniques to reduce noise in audio information. According to an aspect, the technique includes determining a speech-presence-uncertainty metric based on input representing audio information, and performing smoothing during noise suppression of the input information based on the determined speech-presence-uncertainty metric to produce output representing audio information with enhanced speech and reduced musical noise. According to another aspect, the system includes speech presence uncertainty assessment circuitry that determines a speech-presence-uncertainty metric based on input audio information and filter coefficients, and smoothing circuitry including a filter (e.g., a low-pass filter) coupled to receive the filter coefficients and a multiplier unit coupled to receive the input audio information and output filter coefficients from the filter. The speech-presence-uncertainty metric may be a full band minimum mean square error estimator weighting, and the filter coefficients may be formulated as a component-wise multiplication of a noisy speech spectrum in a frequency domain.